



GP 2857
#2 IDS
M. Brunson
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PATENT
JUL - 2001

03141-P0347B WWW/MWK

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE 2800 MAIL ROOM

Applicants	John T. McCaffrey, <i>et al.</i>
Serial No. 09/821,571	Filing Date: March 29, 2001
Title of Application:	Methods And Apparatus To Improve The Sensitivity And Reproducibility Of Bioluminescent Analytical Methods
Group Art Unit: 2857	

Assistant Commissioner for Patents
Washington, DC 20231

Information Disclosure Statement by Applicants

Dear Sir:

As a means of complying with duty of disclosure set forth in 37 CFR §1.56, Applicants list the following references (copies of the listed patents and papers enclosed):

U.S. Patent Documents				
Exam. Initials	Class/ Subclass.	Document No.	Date	Name
BD	195/103.5	3,933,592	01/20/76	Clendenning
BD	195/103.5K	4,014,745	03/29/77	Fletcher <i>et al.</i>
BD	195/103.5M	4,144,134	03/13/79	Plakas, Chris J.
BD	435/8	4,246,340	01/20/81	Lundin <i>et al.</i>
BD	422/101	4,353,868	10/12/82	Joslin <i>et al.</i>
BD	435/291	4,672,039	06/09/87	Lundblom
BD	435/295	4,707,450	11/17/87	Nason

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June 29, 2001

Michael Brunson

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U.S. Patent Documents				
Exam. Initials	Class/ Subclass.	Document No.	Date	Name
JD	514/777	4,762,857	08/09/88	Bollin, Jr. <i>et al.</i>
JD	435/8	4,833,075	05/23/89	Vijayalaksshmi <i>et al.</i>
JD	435/188	4,891,319	01/02/90	Roser
JD	422/61	4,978,504	12/18/90	Nason
JD	435/8	5,004,684	04/02/91	Simpson <i>et al.</i>
JD	436/165	5,188,965	02/23/93	Wannlund
JD	435/8	5,258,285	11/02/93	Ægidius
JD	436/73	5,278,075	01/11/94	Stone
JD	435/8	5,366,867	11/22/94	Kawakami <i>et al.</i>
JD	356/128	5,396,325	03/07/95	Carome <i>et al.</i>
JD	435/4	5,558,986	09/24/96	Lundin
JD	435/288.7	5,580,785	12/2/96	Stiffey <i>et al.</i>
JD	422/102	5,589,136	12/31/96	Northrup <i>et al.</i>
JD	435/8	5,624,810	04/29/97	Miller <i>et al.</i>
JD	435/34	5,648,232	07/15/97	Squirrel
JD	435/7.23	5,663,050	09/02/97	Bedell
JD	250/461.2	5,760,406	06/02/98	Powers
JD	435/8	5,770,391	06/23/98	Foote <i>et al.</i>
JD	435/7.2	5,783,399	07/21/98	Childs <i>et al.</i>
JD	435/8	5,801,007	09/01/98	Simpson <i>et al.</i>
JD	435/8	5,811,251	09/22/98	Hirose <i>et al.</i>
JD	435/8	5,827,675	10/27/98	Skiffington <i>et al.</i>
JD	435/792	5,891,656	04/06/99	Zarling <i>et al.</i>
JD				



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127	435/4	5,902,722	05/11/99	Di Cesare <i>et al.</i>
120	435/8	5,905,029	05/18/99	Andreotti <i>et al.</i>
120	435/34	5,914,247	06/22/99	Casey <i>et al.</i>
120	435/287.7	5,916,802	06/29/99	Andreotti
120	356/244	5,917,592	06/29/99	Skiffington
120	436/165	5,965,453	10/12/99	Skiffington <i>et al.</i>
120	435/29	5,968,766	10/19/99	Powers
120	422/82.08	6,024,923	02/15/00	Melendez <i>et al.</i>
120	356/244	6,055,050	04/25/00	Skiffington

Foreign Patent Documents

Exam. Initials	Document No.	Date	Country
121	0 038 134 B1	27.03.81	Europe
121	0 309 429 A2	14.09.88	Europe
120	0 439 525 B1	17.10.89	Europe
120	0 717 840 B1	03.08.94	Europe
121	WO 90/04775	03.05.90	PCT
120	WO 95/07457	16.03.95	PCT
120	WO 95/25948	28.09.95	PCT
120	WO 97/23596	03.07.97	PCT
121	WO 98/27196	25.06.98	PCT
120	WO 98/49544	05.11.98	PCT



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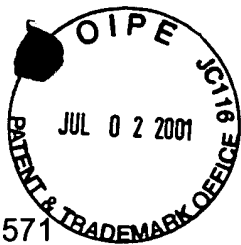
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yo	Colaco, Camilo <i>et al</i> ; Extraordinary Stability of Enzymes Dried In Trehalose: Simplified Molecular Biology; Bio/Technology Vol. 10; September 1992; Pages 1007-1011.
yo	Franks, Felix; Long-Term Stabilization of Biologicals; Bio/Technology Vol. 12 March 1994; Pages 253-256
yo	Lappalainen, Juha, <i>et al</i> ; Microbial Testing Methods for Detection of Residual Cleaning Agents and Disinfectants--Prevention of ATP Bioluminescence Measurement Errors in the Food Industry; April 27, 1999; Journal of Food Protection, Vol. 63, No. 2, 2000, Pages 210-215.
yo	Lundin, A. <i>et al</i> ; ATP Extractants Neutralised By Cyclodextrins; Clinical Research Centre, Karolinska Institute, S-141 86 Huddinge, Sweden and BioThema AB, Strandvägen 36, S-130 54 Dalarö, Sweden; Amersham International plc, Cardiff Wales CF4 7YT, United Kingdom; Pages 399-402.
yo	Mazzobre, M.F. <i>et al</i> ; Combined effects of trehalose and cations on the thermal resistance of beta-galactosidase in freeze-dried systems; ; http://www.confex2.com/ift/99annual/abstracts/4344.htm ; June 22, 2000.
yo	Miller, Danforth P., <i>et al</i> ; Thermophysical Properties Of Trehalose and Its Concentrated Aqueous Solutions; December 30, 1996; Pharmaceutical Research, Vol. 14, No. 5, 1997; Pages 578-590.
yo	Reilly, MJ <i>et al</i> ; Factors Affecting The Shelf Life Of Freeze-Dried Firefly Luciferase Reagents; Biotrace Limited, The Science Park, Bridgend, Mid Glamorgan, CF31 3NA, UK; Pages 257-260.
yo	Ribeiro, Angela R., <i>et al</i> ; Immobilisation of Firefly Luciferase on Glass Strips as an Alternative Strategy for Luminescent Detection of ATP; April 8, 1999; Luminescence Assays for Industry - Angela R. Ribeiro - Abstract; Page 1 of 1.
yo	Velazquez, Madeline <i>et al</i> ; Quenching and Enhancement Effects of ATP Extractants, Cleansers, and Sanitizers on the Detection of the ATP Bioluminescence Signal; September 10, 1996; Journal of Food Protection, Vol. 60, No. 7, 1997, Pages 799-803.
yo	Wang, Chung-Yih <i>et al</i> ; Interfacial Behavior of Firefly Luciferase; Department of Bioengineering, University of Utah, Salt Lake City, UT 84112, USA; Pages 99-103.



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122	Wang, Chung-Yih <i>et al</i> ; Purification and Preservation of Firefly Luciferase; Department of Bioengineering, 2480 MEB, University of Utah, Salt Lake City, UT 84112, USA; Pages 423-426.
PD	Wang, CY <i>et al</i> ; Surfactants And CoEnzyme A As Cooperative Enhancers Of The Activity Of Firefly Luciferase; Dept. of Bioengineering, University of Utah, SLC, UT 84112, USA; Pages 253-256.

Those references that are believed to be most pertinent are discussed in the specification of the above-identified application. The additional listed patents pertain in a general way to the subject matter of the application, but are not necessarily considered to be analogous prior art.

Respectfully submitted,

June 29, 2001

Wesley W. Whitmyer, Jr., Registration No. 33,558

Michael Krenicky, Registration No. 45,411

Attorneys for Applicants

ST.ONGE STEWARD JOHNSTON & REENS LLC

986 Bedford Street

Stamford, CT 06905-5619

203 324-6155

9/7/02

Date Considered

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Supplemental Information Disclosure Statement by Applicants

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U.S. Patent Documents				
Exam. Initials	Class/ Subclass.	Document No.	Date	Name
JD	250/361	4,818,883	04/04/89	Anderson, et al
JD	250/361	3,849,653	11/19/74	Sakaide, et al
JD	422/82.08	5,082,628	01/21/92	Andreotti, et al
JD	435/30	5,624,815	04/29/97	Grant, et al

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January 16, 2002

Maryalice Glaser

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U.S. Patent Documents				
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MD	435/34	5,338,666	08/16/94	Monthony, et al
MD	435/291	4,689,305	08/25/87	Stiffey, et al
MD		4,098,728	07/04/1978	Rosenblatt
MD		4,985,631	1/15/1991	Wannlund et al

Foreign Documents				
Exam. Initials	Class/ Subclass.	Document No.	Date	Name
MD		GB2218803A	Nov. 22, 1989	Whitlock

Other Documents	
Exam. Initials	Description (Author, Title, Date, Pages, etc)
MD	Ford, Sharon <i>et al</i> ; Improvements in the Application of Firefly Luciferase Assays: Methods in Molecular Biology, Vol. 102: Bioluminescence Methods and Protocols, 1998.
MD	Lundin, Arne; Optimised Assay of Firefly Luciferase With Stable Light Emission: Chemiluminescent and Bioluminescent Assays, 1993.
MD	Wood, Keith, The Chemistry of Bioluminescent Reporter Assays: <i>Promega Notes</i> Number 65: 1998, p.14



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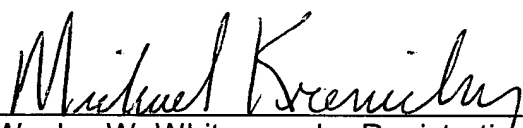
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20	Lewis, Ricki, Refinements in Bioluminescence Assays Expand Technique's Applications; The Scientist 8 [5]:17, Mar.07,1994

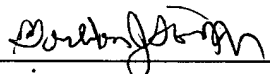
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Wesley W. Whitmyer, Jr., Registration No. 33,558
Michael Krenicky, Registration No. 45,411
Attorneys for Applicants
ST.ONGE STEWARD JOHNSTON & REENS LLC
986 Bedford Street
Stamford, CT 06905-5619
203 324-6155

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